

Calculator Activity **The Slope, Y-Intercept, and Equations of Lines**

Name _____

Instructions:

1. Make a "friendly window" in your calculator by setting the following WINDOW.
 $[-9.4, 9.4]$ by $[-6.2, 6.2]$
2. Graph each equation
3. Use **TRACE** to find whole numbers for (x_1, y_1) and (x_2, y_2) . **Do not use the point when $x=0$.**
4. Calculate $y_2 - y_1$ and $x_2 - x_1$.
5. Calculate the **slope** using the equation **Slope** $= (y_2 - y_1) / (x_2 - x_1)$. Write your answer as a fraction (not a decimal) in simplest form.
6. **TRACE** to find the **Y-intercept**. Write it as an ordered pair.

Equation	(x_1, y_1)	(x_2, y_2)	$y_2 - y_1$	$x_2 - x_1$	Slope	Y-intercept
1. $y = 2x$						
2. $y = (1/2)x$						
3. $y = -3x + 5$						
4. $y = (-3/4)x$						
5. $y = 3x - 2$						
6. $y = (2/3)x + 1$						
7. $y = x - 4$						
8. $y = -3$						